

What is Claimed is:

1. A method for manufacturing a polarizer comprising a stretching processing process, a dyeing treatment process, and a boron compounds treatment process to a polyvinyl alcohol film, wherein the stretching processing is performed at least twice so that a total stretching ratio may become 5.5 times or more, and in a second stretching processing or later, wet stretching processing having stretching ratios of 1.2 times or more is performed applying a peripheral velocity difference between a first pinch roll and a second pinch roll,

and in the wet stretching processing, a film conveyed out from the first pinch roll is passed on a first guide roll so as to make a holding angle (A) of 120 through 175° on a first guide roll to which the film first contacts.

2. The method for manufacturing a polarizer according to Claim 1, wherein the film conveyed out from the first pinch roll is passed on an under side of the first guide roll.

3. The method for manufacturing a polarizer according to Claim 1, wherein the film conveyed out from the first pinch roll is passed on an upper side of the first guide roll,

the film being passed on the first guide roll is further passed on an under side of a guide roll so that the film makes a holding angle (B) of 120 through 175° on the guide roll which the film passes first.

4. The method for manufacturing a polarizer according to

Claim 1, wherein a roll distance (C) between a point of contact (x) of the first pinch roll and the guide roll facing to the first pinch roll, and a central point (y) of a guide roll located at the first pinch roll side, closest to a bottom of a bath for wet stretching processing, and simultaneously closest to the first pinch roll in the bath is 1 m or more.

5. The method for manufacturing a polarizer according to Claim 1, wherein the wet stretching processing is performed in a boron compounds bath.

6. A polarizer obtained by the method for manufacturing according to Claim 1.

7. A polarizing plate with a transparent protective layer formed at least on one side of the polarizer according to Claim 6.

8. An optical film with at least one polarizer according to Claim 6 laminated thereon.

9. An optical film with at least one polarizing plate according to Claim 7 laminated thereon.

10. An image display using at least one polarizing plate according to Claim 7.

11. An image display using at least one optical film according to Claim 8.

12. A wet stretching apparatus comprising a treatment bath used for wet stretching processing in a method for manufacturing a polarizer, the treatment bath having on both sides thereof a first pinch roll and a second pinch roll, the first pinch roll

and the second pinch roll having guide roll facing to the pinch roll, respectively, wherein the first guide roll is arranged so that a film conveyed out from the first pinch roll makes a holding angle (A) of 120 through 175° on the first guide roll to which the film contacts first.

13. The wet type stretching apparatus according to Claim 12, wherein the film conveyed out from the first pinch roll is passed on an under side of the first guide roll.

14. The wet stretching apparatus according to Claim 12, wherein the film conveyed out from the first pinch roll is passed on an upper side of the first guide roll, a guide roll is arranged so that the film being passed on an under side of a first guide roll further makes a holding angle (B) of 120 through 175° on the guide roll which the film is passed first.

15. The wet type stretching apparatus according to Claim 12, wherein a rolls distance (C) between a point of contact (x) of the first pinch roll, and the guide roll facing to the first pinch roll, and a central point (y) of a guide roll located at the first pinch roll side, closest to a bottom of the bath for wet type stretching processing, and simultaneously closest to the first pinch roll in the bath is 1 m or more.